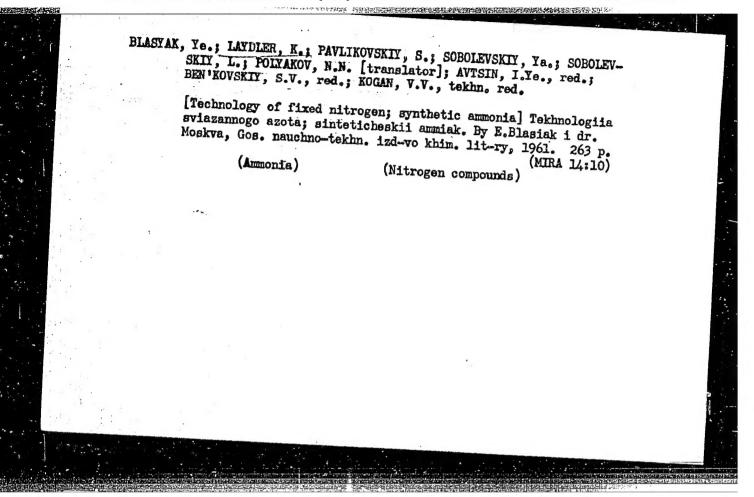
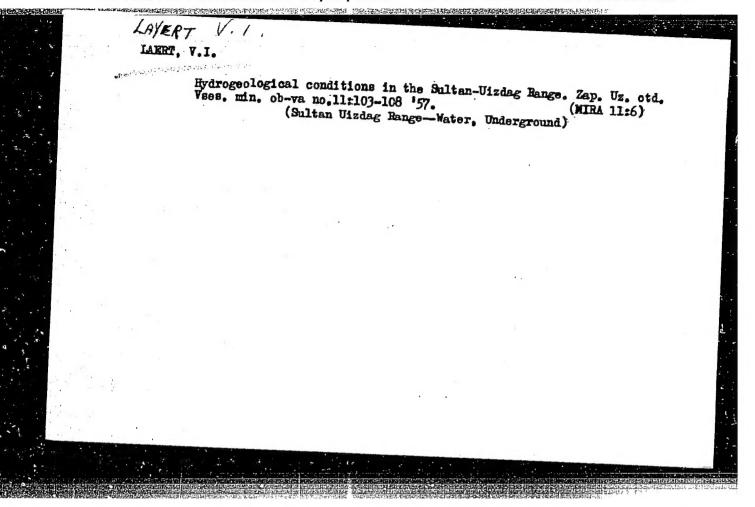
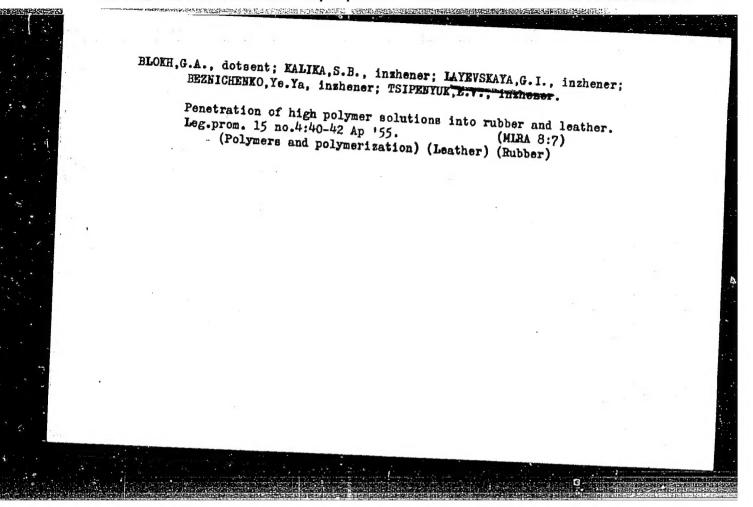
LAYBZON, N.	D.	PA 61/4/T103
	describe - Plantic Surgery May/Jun 49 (Contd) after death and preserved in a sterile Ringer solution at 3-40 Gives data on the extent of calcification of the cartilage and the success of closure of the 24 operations. After 12 years of postoperative observation no local or general complications were noted. Submitted 19 Feb 49.	Weddcine - Plastic Surgery May/Jum 49 Meddcine - Cranium *Plastic Closure of Cranial Defects With Cartilage From a Corpse," N. D. Laybzon, Dept of Clinical Neurosurg, Inst of Neurosurg imeni Acad N. N. Burdenko, Moscow, 6 pp *Vop Neyrokhirurg* No 3 Oites previous literature on the use of corpse cartilage for the closure of cranial defects and describes the results of 24 surgical operations using preserved cartilage for closing minor defects performed by the author in 1947. The costal cartilage was taken from the corpse 4-12 hours 64/497103





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9. <u>N</u>	lonthly List of	Russian Acc	essions, Lib	rary of (Congress, _	June	1953, (Inclassified.



\$/081/61/000/019/081/085 B103/B147

AUTHORS:

Slutskiy, S. B., Layevskaya, G. I., Reznichenko, Ye. Ya.

TITLE:

Experience with nairit HT (NT)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 19, 1961, 520, abstract

19P295 (Kozhevenno-obuvn. prom-st', no. 4, 1960, 26-27)

TEXT: During the operation with chloroprene rubber polymerizing at low temperatures (nairit NT) (I) and perfectly substituting gutta percha, it was found that its technological properties were directly related with the index of plasticity. The plasticity according to Karrer was determined by changing the method of preparing the samples (mechanical mastication was replaced by thermo mastication thus giving standard samples with smooth surface). The index of plasticity of I is directly related to its hardness and its capacity of being rolled, as well as to its solubility, viscosity of solutions, and binding property. I with a plasticity > 0.15 can be easily rolled. I with a plasticity of 0.20-0.35 gives glues with excellent binding properties at normal viscosity and concentration. When rolling I with a plasticity of 0.18-0.35, the time of

Card 1/2

Experience with nairft HT (NT)

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B103/3147

mastication can be reduced from 50-60 to 20-25 min. There is no noticeable relationship between tensile strength of I and binding property of glue from it. [Abstracter's note: Complete translation.]

GLAUNGY 'NZheNER Kiyevs Koy fabrik' No. 1

(fix Blatsky)

Nachal' N'K eksperimental' Noy laboratori;

Rezing Kiyevsky Fabrik; No. 1

(for Layevskya)

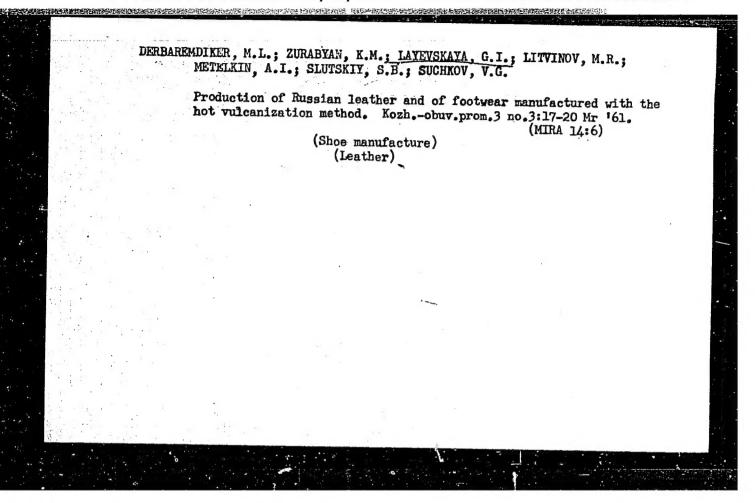
Card 2/2

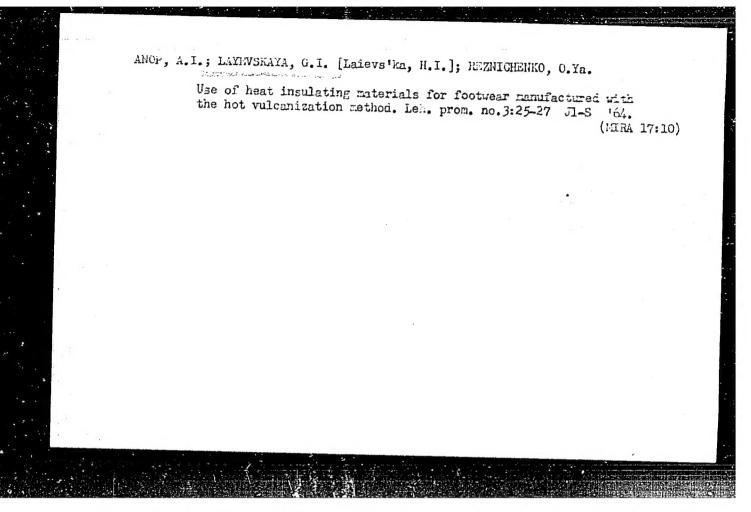
LAYEVSKAYA, G.I. [Laievs'ka, H.I.]; VORONTSOVA, Ya.O.

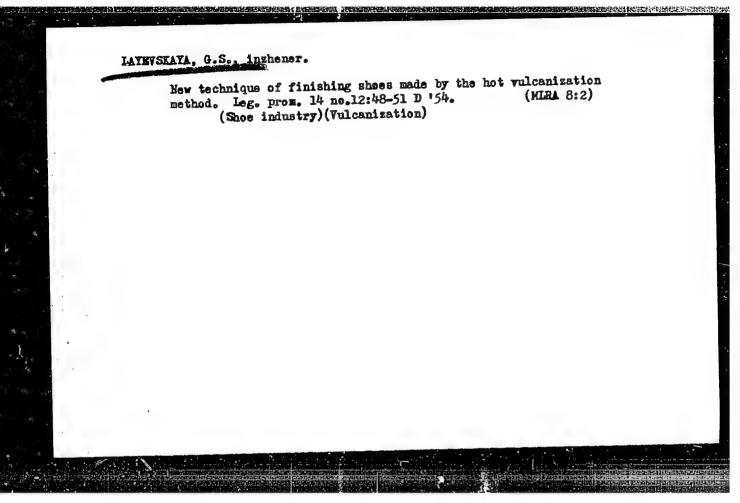
Using the hot vulcanization method for the manufacture of footwear from Russian leather. Leh.prom. no.3:47-49 Jl-S '63.

(MIRA 16:11)

1. Kiyevskaya obuvnaya fabrika No.1.



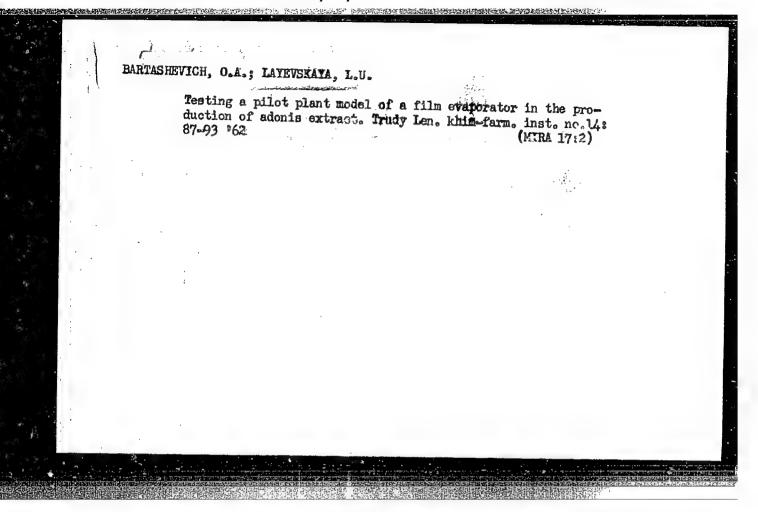


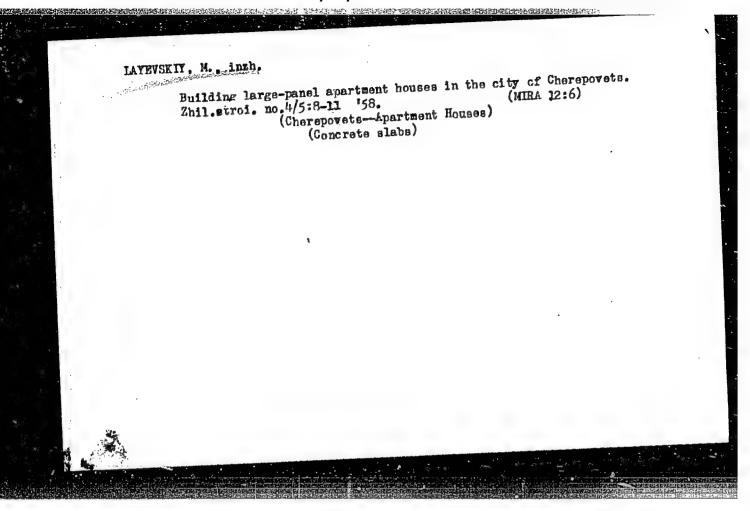


SLUTSKIY, S.V., inzhener; LAYKVSKAYA, G.S., inzhener; TSIPENYUK, E.V., inzhener; REZNICHENKO, Ye.Ya., inzhener; BOGUSLAVSKIY, A.I., inzhener; SKURATOVSKIY, Z.Sh., inzhener.

Manufacture of footwear with microporous soles made by hot vulcanization under pressure. Leg. prom. 16 no.7:19-23 J1 '56. (MLRA 9:10)

(Shoe industry) (Rubber, Synthetic)



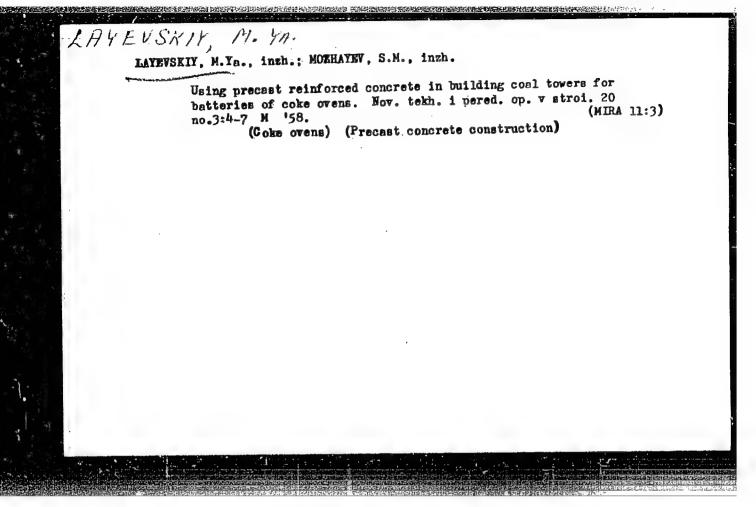


LAYEVSKIY, M., glavnyy insh.

Demonstration building of an open-hearth plant, Stroitel' no.4:7,10
Ap '59.

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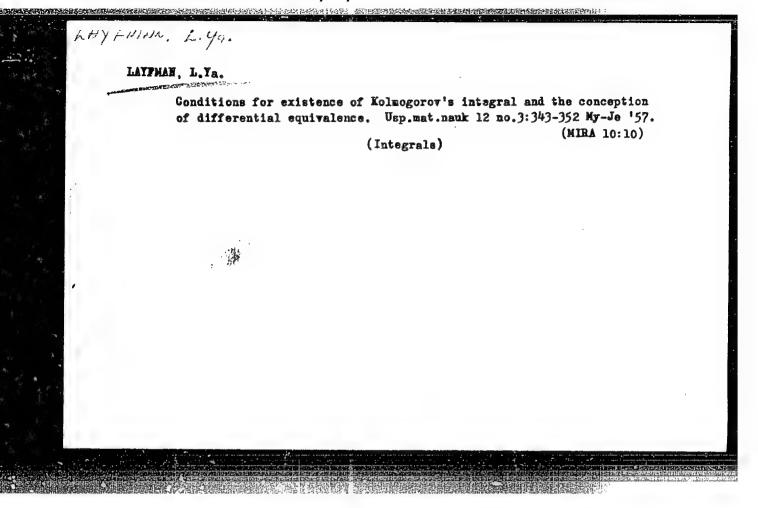
(Cherepovets—Steelworks)

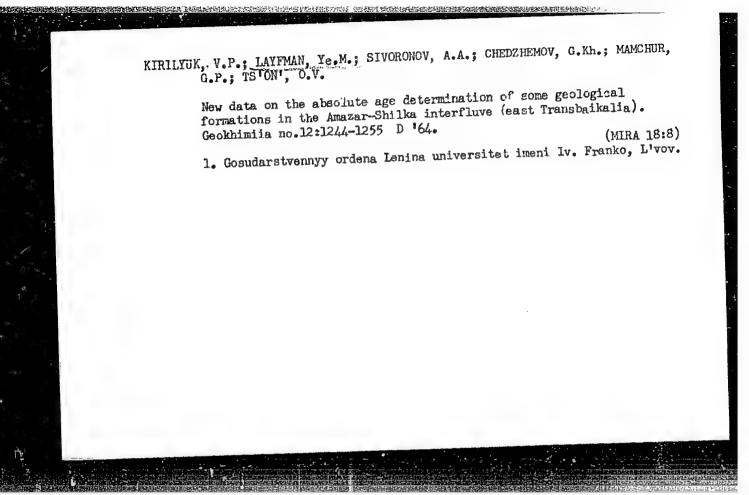


ALEKSEYEV, Ye.K., inzh.; IZGUR, R.M., inzh.; LYUKE, Ye.P., inzh.; NIKO-LAYEVSKIY, Ye.Ya., inzh.; PIROGOV, A.N., inzh.; RODIONOVA, R.G., inzh.; TOYBIK, V.A., inzh.; PREYDLIN, G.M., inzh.; KHLYUPINA, A.K., inzh.; CHERNOV, D.L., inzh.; EYDEL NAFT, L.B., inzh.; ZEMUR, N.S., inzh., retsenzent; MOLYUKOV, G.A., inzh., red.; TIKHANOV, A.Ya., tekhn.red.

建设的建设的基础的运动的的对象的联系在使用转动性流行。但包含的资本地推设的态度,更能够的密度不够可能的影響的最级的影响,这种激力的影响,但是这种对象的特别的

[Production and installation of pipe systems; reference manual]
Izgotovlenie i montazh tekhnologicheskikh truboprovodov; spravochnoe posobie. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1960. 574 p.
(Pipe fitting)

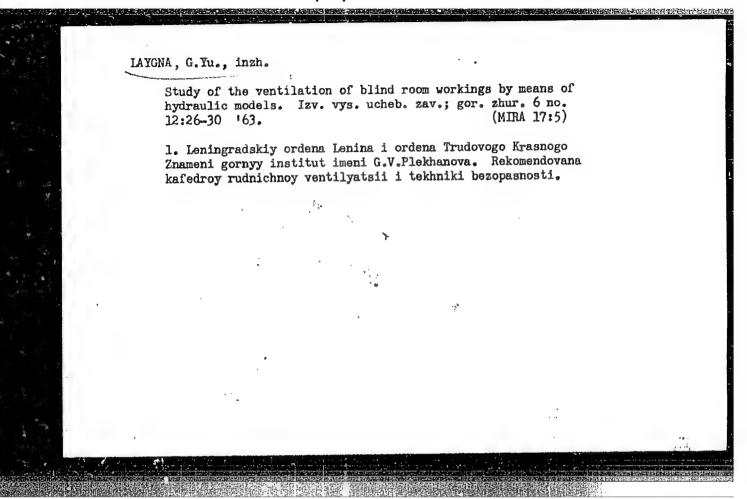


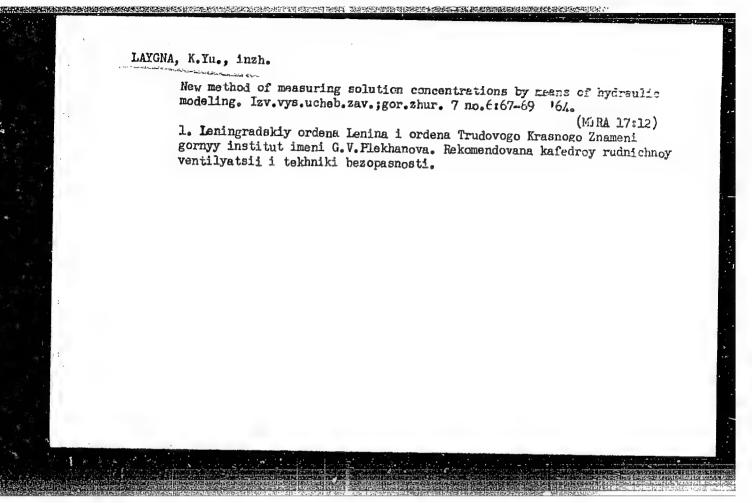


LAYGNI, G. Yu., inzh.

Selection of the optimal cross section of holes and the distance between them. Izv. vys. ucheb. zav.;gor. zhur. 7 no.3: 84-88 *64 (MIRA 17:5)

1. Leningradskiy ordena Lenina i ordena Trudovogo Krasnogo Znameni gornyy institut imeni G.V. Plekhanova.



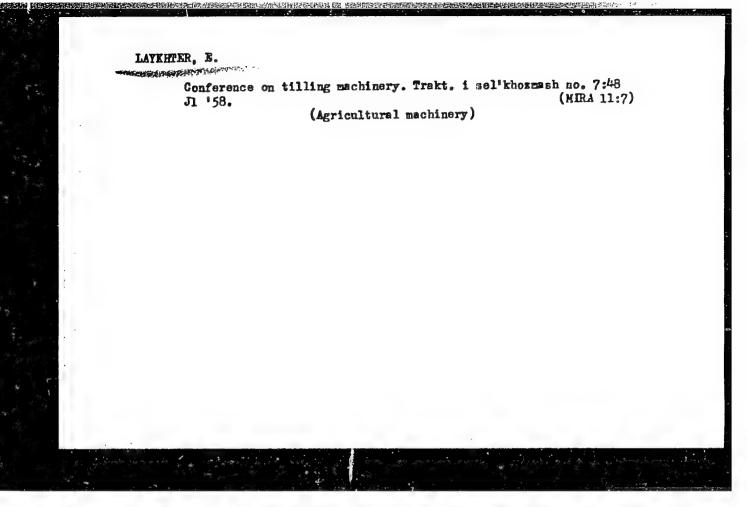


Use of automatic elevators by the Horil'sk expedition. Biul.

| Use of automatic elevators by the Horil'sk expedition. Biul. (MTFA 15:5)
| nauch.otekh.inform.VIMS no.l:51.-55 '60. (MTFA 15:5)
| 1. Krasnoyarskoye geologicheskoye upravleniye. (Noril'sk region.-Hoisting machinery) (Automatic control)

Degeneration due to aging in the region of the macula lutes. Vest. oft. 70 no.2:36-39 Mr-ap '57.

1. Glaznoye otdeleniye TSentral'noy polikliniki Ministerstva adravokhraneniya SSSR (nauchnyy rukovoditel' prof. Z.A.Kaminskaya) (RETIMA, physiol. degen, due to aging in region of macula lutes (Rus)) (AGING, eff. same)



LAYKHTER, E.G.; CHUMAK, A.V., inzh., red.; BEZRUCHKIN, I.P., kand.tekhn.

nauk, red.; ZANIH, A.V., kand.tekhn.nauk, red.; ZVOLIHSKIY, N.P.,
inzh., red.; IVAHOV, I.S., inzh., red.; KLETSKIH, M.I., inzh., red.;
PETROV, G.D., kand.tekhn.nauk, red.; PUSTYGIH, M.A., doktor tekhn.

nauk, red.; RABINOVICH, I.P., kand.tekhn.nauk, red.; RUDASHEVSKIY,
D.Sh., kand.tekhn.nauk, red.; SINEOKOV, G.N., doktor tekhn.nauk, red.;
SYSOYEV, N.I., kand.tekhn.nauk, red.; FEDOROV, V.A., inzh., red.;
CHAPKEVICE, A.A., kand.tekhn.nauk, red.; PONOMAREVA, A.A., tekhn.red.

[Bibliographic manual on tillage machinery and implementa] Bibliograficheskii spravochnik po pochvoobrabatyvaiushchim mashinam i orudiiam. Moskva, Gosplanizdat. No.2. [Literature in the Russian language from 1730-1955] Literatura na russkom iazyke za 1730-1955 gg. Pod red. G.N. Sineokova. 1959. 263 p. (MIRA 13:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut sel skokhozyaystvennogo mashinostroyeniya. (Bibliography--Agricultural machinery)

EWT(m)/EVF(c)/EWP(j)/T/EWP(t)/EWP(b) IJP(c) JD/WW/WB/RM L 3782-66 UR/0365/65/001/003/0330/0334 ACCESSION NR: AP5014137 621.794.4 620,197.3 AUTHOR: Klyuchnikov, N. G.; Kipriyanov, H. A.; Laykhter, L. B.; Fateyev, Shadrina, N. I. TITLE: Investigation of the effect which various inhibitors have on the dissolution of iron oxides SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 330-334 corresion, corresion rate, corresion inhibitor, iron exide TOPIC TAGS: ABSTRACT: The authors study the dissolution of iron oxides in mineral acids as well as in solutions of substances which form complex compounds with iron (citric acid and ammonium citrate) for eliminating slag in boilers at thermal electric power stations. Samples of ferrous oxides and mixed iron oxides were prepared by sintering powdered oxides in an argon atmosphere at 1200-1300°C. Ferric oxide specimens were sintered in air at 1300°. The specimens were cylindrical with a surface area of 7 cm². The inhibitors used were: BA-6 (a product of condensation of benzylamine and urotropin); PB-5 (a product of condensation of urotropin and ani-Card 1/3

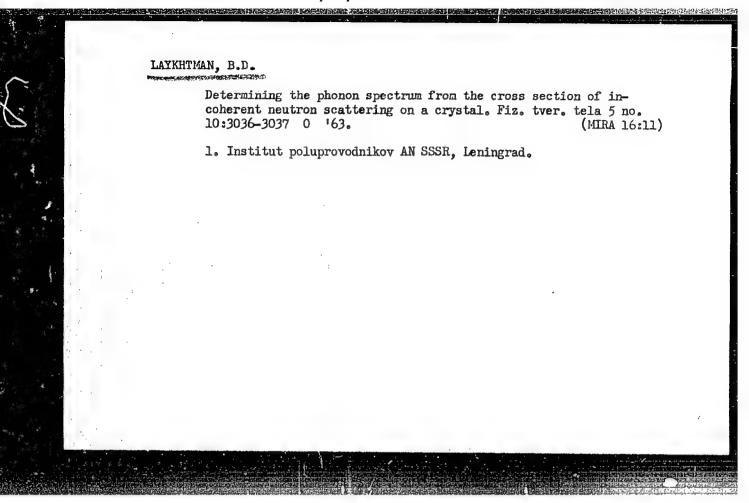
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Card 2/3

ACCESSION NR: AP5014137

line); I-1-A, which is a byproduct of the manufacture of 2-methyl-5-ethyl pyridine; "ChM" put out by Soviet Industry according to Technical Specifications MNP-521-54; a mixture of potassium iodide and urotropin; Katapin-A (paradodecylbenzylpyridinium chloride); and Katapin-K. Graphs and tables of the results are given. In most cases, the inhibitors retard the action of hydrochloric acid on both ferrous and ferric oxides. The rate of dissolution of FeD is increased only by I-1-A in 3N HCl and BA-6 in 7N HCl. In 1N and 2N mixtures of hydrochloric and sulfiric acids, the rate of dissolution of FeO is reduced or somewhat increased by the presence of inhibitors. In a 5W mixture of these acids with a high content of hydrochlorid acid, the stimulating effect of the inhibitors reaches a maximum, and diminishes in 7M acids. Dissolution of Fe₂O₃ is retarded by inhibitors in all concentrations of sulfuric-hydrochloric acid mixtures studied. Certain concentrations of BA-6 inhibitor in hydrochlori acid and in a hydrochloric-sulfuric mixture accelerate the dissolution of FeO, and have the least effect on retardation of Fe2O3 dissolution in comparison with the other inhibitors. At the same time, BA-6 is the most effective agent for retardation of steel dissolution in these media. FeOgand Fe 304 dissolve faster in a solution of ammonium monocitrate than in solutions of citric acid. The most effective inhibitor for steel dissolution in citric acid and in ammonium citrate solutions is an additive of 0.1% Katapin and 0.017% Captax. This

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GUREVICH, V. L.; KAGAN, V. D.; LAYCHTMAN, B. D.

"The growth of fluctuations and non-linear effects in the case of acoustical instability of semiconductors."

report submitted for Intl Conf on Physics of Semiconductors, Paris, 19-24 Jul 64.

\$/0056/64/046/002/0598/0611 ACCESSION NR: AP4019226 AUTHORS: Gurevich, V. L.; Laykhtman, B. D. TITLE: Nonlinear effects limiting the amplification of sound in piezoelectrics SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 598-611 TOPIC TAGS: piezoelectric, piezoelectric semiconductor, sound propagation in piezoelectric, nonlinearity, electronic nonlinearity, elastic nonlinearity, constant electric field, stationary wave, wave growth, wave attenuation, stationary wave stability ABSTRACT: A semiconductor with carriers of only one polarity (assumed for concreteness to be electrons) is considered and the case when lattice absorption in sound is negligibly small is analyzed qualitatively. The method of iteration is used to investigate the stationary modes and the stability of the corresponding waves against Card 1/2

ACCESSION NR: AP4019226

small changes in amplitude. It is found that the nonlinearity of electronic origin appears as a rule much earlier than the nonlinearity of ity of the elastic properties of the crystal. The nonlinear effects lead to the existence of stationary waves which propagate in the crystal without amplification or damping. An expression is derived for the amplitude of the waves as a function of the stationary electric field strength. The damping or growth of waves that differ little from stationary waves is studied. It is shown that both oscillation modes are stable at high viscosity, so that a critical value of viscosity exists in the case of the second mode. Orig. art.

ASSOCIATION: Institut poluprovodnikov AN SSSR (Institute of Semi-

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s/0181/64/006/009/2884/2886 ACCESSION MR: AP4044980 AUTHORS: Gurevich, V. L.; Laykhtman, B. D. TIVIE: On the excitation of standing sound wayes in piezoelectri SOURCE: Plzika tvardogo tela v. 6, nov 9, 1964, 2884-2886 TOPIC TAGS: sound wave, standing wave, sound reflection, sound amplification, plezoelectric effect ABSTRACT: The authors calculate the dependence of a stationary standing sound wave in a plezoelectric on the applied constant electric field. The possible production and amplification of such sound waves was first pointed out by D. L. While (J. Appl. Phys. v. 33, 2547, 1962). Under the assumption that the energy acquired by the wave in the forward direction exceeds the sum of the losses in the backward direction and the reflection losses, and that the reflection from both ends of the semiconductor is almost specular, the authors

	where h is the square of the dimensionless amplitude, L the length of the crystal, $\chi = 4\pi\beta^2/\epsilon c$, β piezoelectric modulus, ϵ dielectric constant, c modulus of elasticity, ϵ reciprocal Debye-Huckel radius, τ_M Maxwellian relaxation time, $V = \mu E$, μ mobility. The	
	arrive ultimately at an expression $h(L) = \frac{36}{47} r^2 L_{2g}(V-V_g) \tag{9}$	
	B 7002-65 ACCESSION NR: AP4044980	
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		. 7.5
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Orig. art. has: 10 formulas. ASSOCIATION: Institut poluprovodnikov AN ESSR (Leningrad) (Institute of Semiconductors AN SSSR) SUBMITTED: 19May64 ENCL: 00 SUB CODE: EM, GP NR REF SOV: 004 OTHER: 003	1	approximations under which the formula is derived are indicated.	
ASSOCIATION: Institut poluprovodnikov AN SSSR (Leningrad) (Institute of Semiconductors AN SSSR) SUBMITTED: 19May64 ENCL: 00 SUB CODE: EM, GP NR REF SOV: 004 OTHER: 003			
of Semiconductors AN SSSR) SUBMITTED: 19May64 ENCL: 00 SUB CODE: EM, GP NR REF SOV: 004 OTHER: 003			
of Semiconductors AN SSSR) SUBMITTED: 19May64 ENCL: 00 SUB CODE: EM, GP NR REF SOV: 004 OTHER: 003		ASSOCIATION: Institut nolunrovodníkov AN ESSR (Deningrad) (Institute	
SUB CODE: EM, GP NR REF SOV: 004 OTHER: 003		of Semiconductors AN SSSR)	
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Card 2/3		SUB CODE: EM, GP NR REF SOV: 004 OTHER: 003	
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L 111130-65 EMT(1)/EPA(s)-2/ZEC(b)-2 Pt-10 LJP(c)/SSD/AFML/ASD(s)-5/ AS(mp)-2/AFETR/ESD(t) ACCESSION NR: AP4048390 S/0181/64/006/011/3217/3221

B

AUTHOR: Laykhtman, B. D.

TITLE: Deviations from Ohm's law in piezoelectric semiconductors

SOURCE: Fizika tverdogo tela, v. 6, no. 11, 1964, 3217-3221

TOPIC TAGS: piezoelectric effect, electric conductivity, carrier mobility, relaxation time, cubic crystal, semiconductor

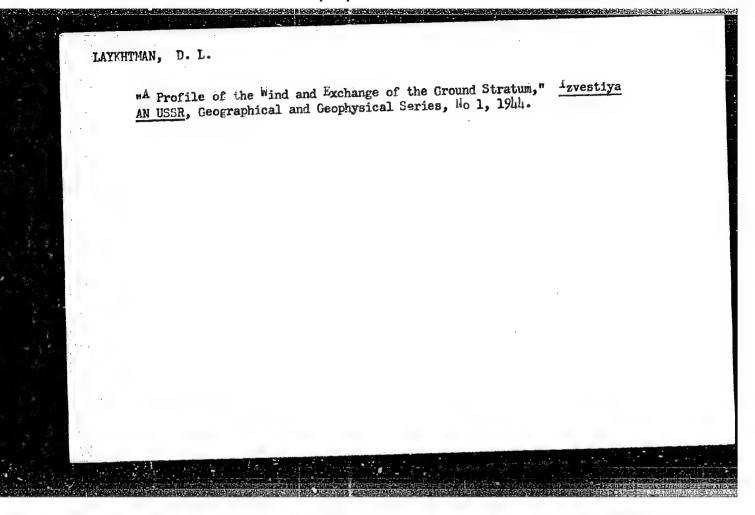
ABSTRACT: The kinetic equation for electrons in a strong electromagnetic field is solved in the relaxation-time approximation, in view of its importance to the behavior of piezoelectric semiconductors in strong fields. Only the piezoelectric electron-phonon interaction is taken into account. For simplicity, the semiconductor is assumed to have only one kind of carriers (electrons) and a cubic crystal structure. The equation ultimately obtained for the electron mobility goes over at zero field to that obtained by W. R. Har-

Cord ... 1/2

1. 111130-65 ACCESSION NR: AP4048390 rison (Phys. Rev. v. 101, 90?, 1956) of K. J. Sladek (Phys. Rev. v. 120, 1580, 1960). Other possible scattering mechanisms are considered briefly, and it is shown that the plezoelectric scattering mechanism is most effective at medium temperatures. "The author thanks V. L. Gurevich for suggesting the topic and a discussion of the results." Orig. art. has: 28 formalas. ABSOCIATION: Institut poluprovodnikov AN SSSR/ Leningrad (Institute of Semiconductors AN SSSR) ENCL: SUBMITTED: 07Apr64 OTHER: 008 NR REF SOV: 003 SUB CODE: SS, EM Card 2/2

IJP(c) WW/AT EVT(1)/EPF(n)-2/T/EVA(h)/ETC(m) L 12179-66 SOURCE CODE: UR/0056/65/049/003/0960/0974 ACC NR: AP5024719 4.55 AUTHORS: Gurevich. V. L. Laykhtman, B. D. 44.55 68. ORG: Institute of Semiconductors, Academy of Sciences SSSR (Institut poluprovodnikov Akademii nauk SSSR) TITLE: Nonlinear theory of sound instability in piezoelectrics SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49. no. 3, 1965, 960-974 TOPIC TAGS: sound wave, piezoelectric crystal, semiconductor crystal, acoustic transducer ABTRACT: This is a continuation of an earlier study of the role of nonlinear effects in the propagation of traveling waves (ZhETF v. 16, 598, 1964). In the present article, a nonlinear theory is constructed 2, 4 for small-amplitude nonstationary waves traveling in piezoelectric semi-conductors situated in a constant magnetic field. The question of how the stationary waves are formed is discussed. It is shown that a traveling sound wave goes over when amplified into a stationary wave provided the nonlinear correction to the damping coefficient of sound is greater than zero. A calculation of this correction is performed by the Card

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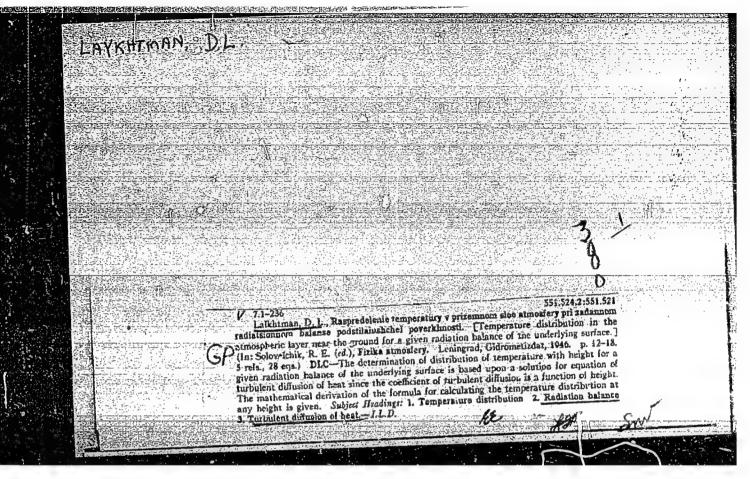
LAYKHTMAN, D. L.

"Radiation Cooling of the Lowest Air Layer", <u>Izvestiya AN SSSR, seriya geograf. i. geofiz.</u> (News of the Academy of Sciences USSR, Geographic and Geophysical Series) Vol. IX, 2, 1945.

S0: U-3039, 11 Mar 1953

LAYKHTMAN, D.L. Stade legical aboti 20-252 552.552 552,506,5 Vol. 4 No. 2 Laikhtman, D. L. and Sapozhnikova, S. A., Arysskaia ekspedits Feb. 1953 1945 gods. [Arys expedition of 1945.] U.S.S.R. Glavnos Bibliography on Upravlenie Gidrome teorologicheskoi Sluzhby, Trudy Nauchno-Turbulent Exchange issledovatel'skikh Uchrezhdenii, Ser. 1. Meteorologiia, No. 39, Fizika Prizemnogo Sloia Atmosfery, p. 3-10, 1947. 5 figs., eqs. DLC-This expedition was organized by the Central Geophysical Observatory for investigation of wind variations near the ground and laws of heat exchange between surface and atmosphere. The twon Arys' is located 125 km NNW from Tashkent in a desert zone. In addition to the usual observations of wind velocity and temperature near the ground, the observations of the solar radiation and basic pilot balloon observations were carried out. Subject Headings: 1. Turbulent transfer of heat 2. Wind profiles 3. Arys' Expedition 1945 4. Arys', Uzhek S.S.R. -- N.T. Z.

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	skorosti vetra. [Convelocity.] (In: Solo	nditions of vertical vertical verticals, R. E., ed., LC—The author at	tal'nol ustolchivosti prin stability associated with Fizike Atmosfery. Lenin tempts to generalize the r	egrad, Gidrometizdat, 19 caults of Taylog and Go	tol nd GP 10. LD-1 nce	
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	of the vertical gradic fluid with the linear disturbances are aur determined from the	changes in its con- erimposed upon the behavior of the for- ie analysis of vertica semperature. Riv	rmer. From the hydrod l atmosphere stability is d Richardson, criterion;	ymemic equation a func-	ion)/s	

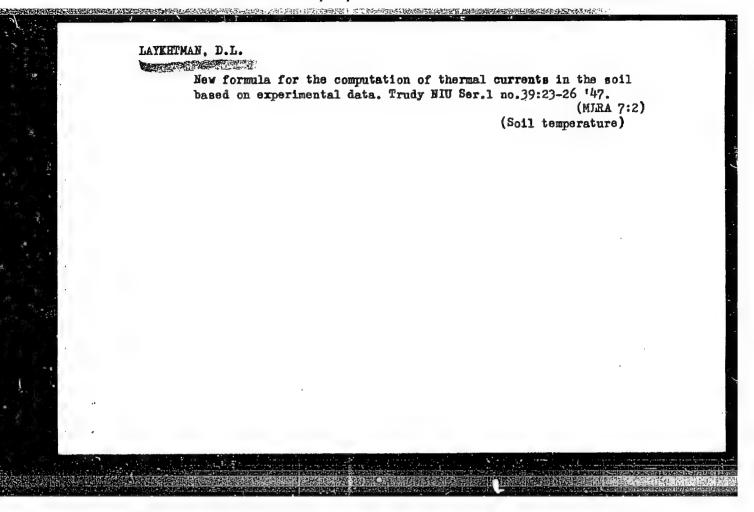


LAYKHTMAN, D. L.

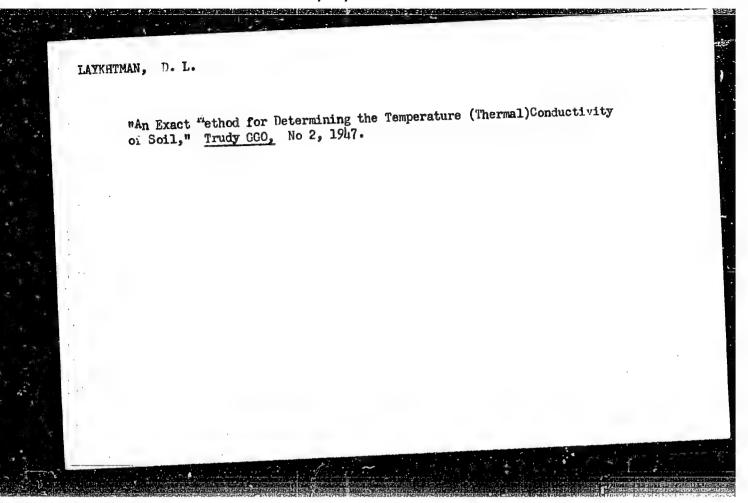
"Transformation of the Air Mass under the Influence of the Underlying Surface",

Meteorologiva i gidrologiva (Meteorology and Hydrology) No 1, 1947.

SO: U-3039, 11 Mar 1953

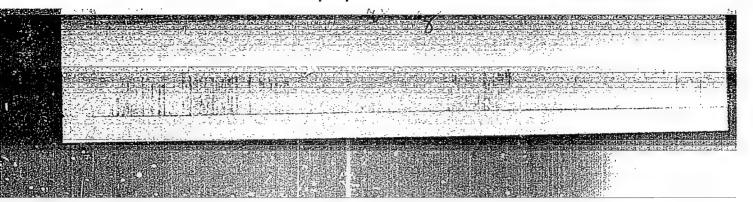


LAYKHT MAN, 551,554 12:191 leithtman, D. L., O profile vetra v prizemnon sloe atmosfery stationarnykh uslvijakh. Wind profile in the air layer car the ground under stationary conditions. U.S.S.R. Glavnos Meteorological Abst. Vol. 4 No. 2 Oppowlenie Gidrometeorologicheskoi Sluzhby, Trudy Nauchno-Bibliography on icaledowatel'skikh Uchrezhdenii, Ser. 1, Meteorologiia, No. 39, Turbulent Pinite Prisonnego Sloffs Atmosfery, p. 58-76, 1947. 10 figs., Exchange Dif-With stable or unstable conditions, the vertical variation of the wind velocity differs essentially from the legarithmic law. The author derives a formula for the increase of wind velocity with height for any state of the atmosphere and versities it experimentally. Some conclusions of Prandtl pertaining to this problem are generalized. Subject Heading: 1. Wind profiles .- N.T.7.



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LAYKHTMAN, D. L.

Meteorology

Application of the theory of similarity in meterology. Trudy Glav. geofiz.obser. No. 20,

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

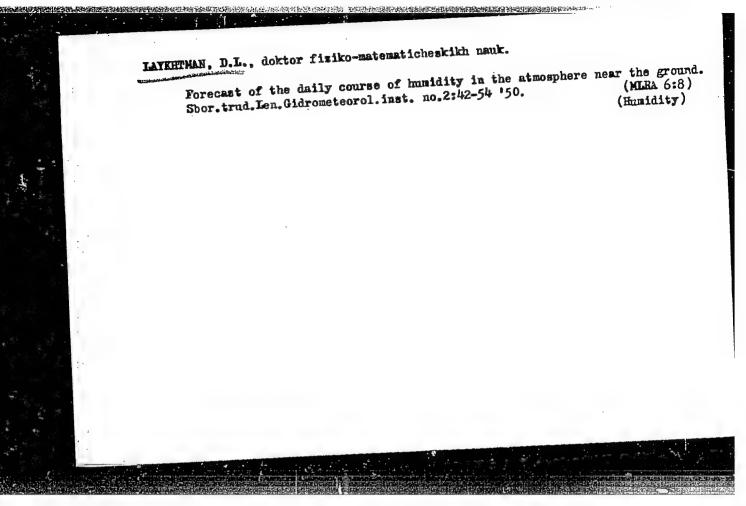
de la la	LAYKHTMAN, D. L.
	Atmospheric Temperature Computation of evaporation, and the flow of heat. Trudy Glav. geofiz. obser. No. 20, 1949.
	June 1953, Uncl.
	9. Monthly List of Russian Accessions, Library of Congress,

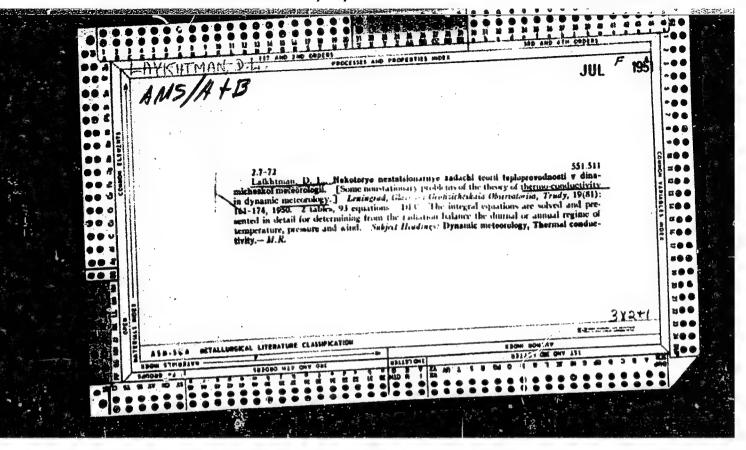
LAYKHTMAN, D. L.

Turbulence

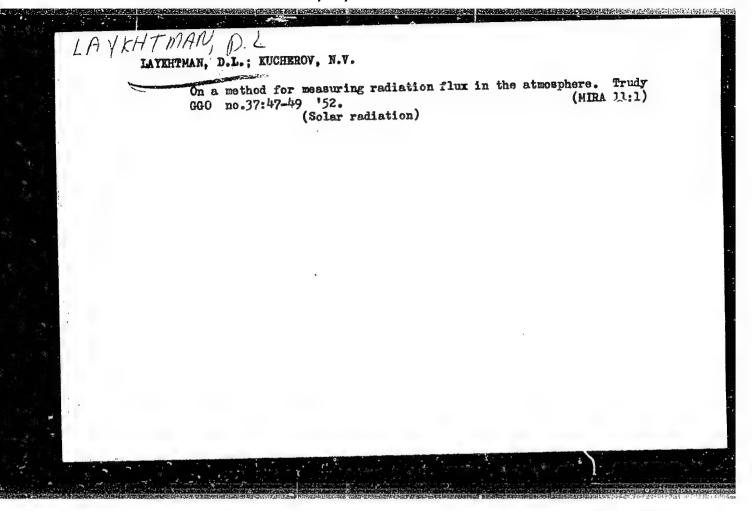
Turbulent motion in the lower layers of the atmosphere. Trudy Glav. geofiz. obser. No. 21, 1949.

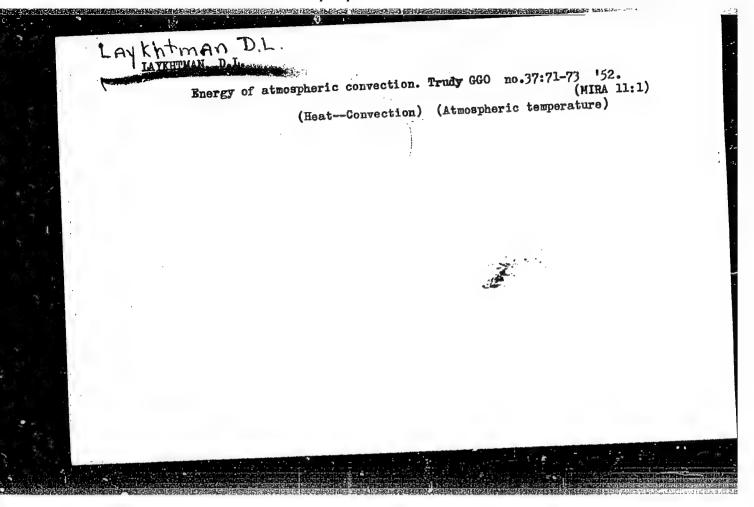
Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

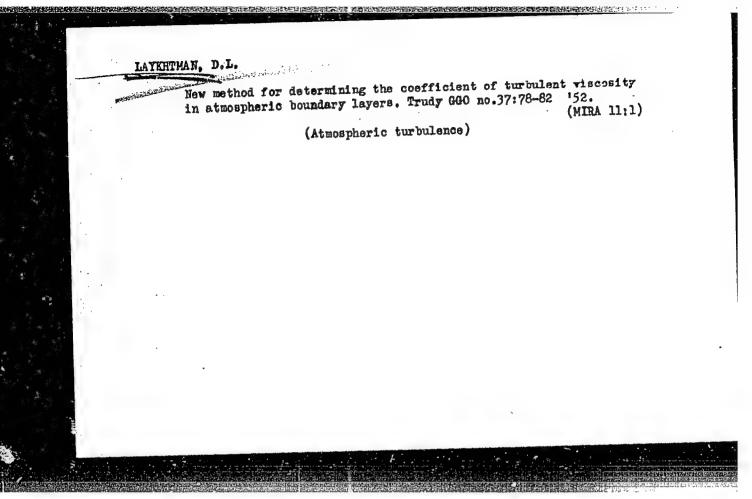




LAYKHTMAN, D.L. **报题,1770年建筑设计设施设施设施设施设施设施设施设施**。1970年1970年 551.524.4:551.584 Laikhtman, D. L., Predvychislenie sutochnykh kolebanii temperatury v prizemnom sloe atmosfery. [Calculation Meteorological Abst. Vol. 4 No. 11 of daily temperature variations in the air layer near the Nov. 1953 graund. | Laningrad. Glavnaia Geofizicheskaia Obsarvatoriia. Air Temperature Trudy, No. 22(34):5-14, 1950. fig., 3 tables, 9 refs., 52 eqs. DLG-The author presents a method for calculating actual temperatures in the air layer above the ground. The problem is formulated in such a way that the temperature can be determined directly, given initial and limiting conditions, and the equations are set up in such a way that they can be solved by the method of successive approximation. It is then possible to determine the effect of advection and temporal change on the coefficient of turbulence. Subject Headings: 1. Temperature microvabiations 2. Temperature calculations 3. Low level turbulence. -- I. L. D.







LAYKHTMAN, D. L., BUDYKO, M. I., and TIMOFEYEV, M. P.

"Determination of the Coefficient of Terbulent Exchange in the Layer of Air Near the Ground, " Meteorol. i Gidrologiya, No 3, 1953, pp 27-33

A brief description of methods for determining the coefficient of exchange in the practical operations of the Main Geophysical Observatory. The authors investigate the relation between the exchange coefficient and the characteristics that govern the profiles of temperature and wind velocity (Richardson's number). They evaluate the possible error of temperature and wind velocity (Richardson's number). So: Sum. No. 713, 9 Nov 55 of the methods presented at 10-20%. (RZhGeol. No. 6, 1955) So: Sum. No. 713, 9 Nov 55

State Japhysico Olawatory im. Voyeykov, Lungrad

CIA-RDP86-00513R000928830013-7" APPROVED FOR RELEASE: 06/20/2000

LAYKHTMAN, D.L.; OGNEVA, T.A.; TIMOFEYEV, M.P.; TSEYTIN, G. KH.; AYZENSHTAT, B.A.; KIRILLOVA, T. V.

"Measurement of the Heat Balance of the Active Surface for the Case of Irrigation"
Tr. Gl. Geofiz. Obervatorii, No 39, 37-60, 1953

The authors present data on the components of the heat and radiative balance of the active surface in a semidesert and in an irrigated field. The data was obtained by an expedition of the Main Geophysical Observatory in July 1952 in the sovkhoz "Pakhta-Aral," a collective farm in Central Asia. It was found that heat exchange in soil practically does not change under the influence of irrigation. (RZhGeol, No 3, 1954)

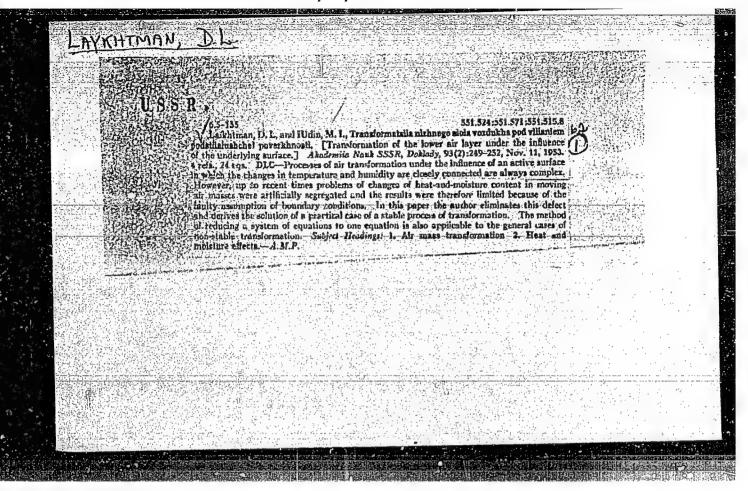
so: W-31187, 8 Mar 55

LAYTKHTMAN, D. L., and TSEYTIN, G. KH.

"Variation in the Temperature of the Ground Layer of the Atmosphere During Irrigation"
Tr. Gl. Geofiz. Observatorii, No 39, 219-227, 1953

The effect of irrigation is studied as an effect resulting from variations in the heat content of moving air in consequence of variations in the conditions surrounding heat exchange in the underlying surface. A procedure is developed for computing the relationships of these variations. (RZhGeol, No 3, 1954)

So: W-31187, 8 Mar 55



LAYESTEEN, D.L.

The Committee on Stelin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Govetskays Kultura, Moscow, Ro. 22-40, 20 Feb - 3 Apr 1954)

Name

Budyko, M.I. Laykhtman, D.L. Yudin, M.A. Kucherov, M.V. Berlyand, M.Ye. Krasikov, P.H. Timofeyev, M.P. Gayevskiy, V.L. Vorentsov, P.A.

Title of Work

"Physical Rules of the Microclimate of Agricultural Fields, Its Forecasting and Regulation" (series of articles)

Mominated by

Main Geophysics Chservatory imeni A.I. Voyeykov

SO: W-30604, 7 July 1954

LAYKHTMAN, D. L.

S. 3

"Problem of Evaluating the Vertical Component of the Velocity of Wind in the Layer of Air near the Ground".

Sbornik tr. Leningr. gidromet. in-ta, No 3, pp 52-58, 1954.

The causes for vertical movements in the ground air layer are flow across isobars (in the case of curvilinear isobars), presence of horizontal inhomogeneous turbulence, and temperature variations in the ground air layer which cause vertical movements with 24-hour period. For symmetric baric formation during steady-state movement the author considers the equations of motion and the equation of continuity in polar coordinates. Investigation of the obtained system of equations permits discerning in the baric formation a region of small curvature of isobars (external region) and a region of large curvature (central region) Introducing Simplifications for the coefficient of turbulent viscosity and for dimensionless variables the author increase of cyclonic curvature of isobars leads to weakening of the wind in a free atmosphere, but increase of anticyclonic curvature leads to intensification of the

Evaluating the mean value of the vertical component for the entire layer under consideration the author is led to the conclusion that in the case of horizontal homogeneous turbulence in the layer of friction a certain vertical velocity occurs whose magnitude is proportional to the pressure gradient with power 2/3; in the case of the presence of horizontally inhomogeneous turbul nce the

1/2

descending movements occur during displacement of air particles in the direction of growth of turbulence and ascending movements occur during displacement in the direction of fall of turbulence. The latter fact can be clarified by flow across isobars. The data obtained explainsthe increase of precipitation in regions of continuous afforestation as dur to increase of turbulent transfer of water vapor to the upper layers. (RZhGeol, No 8, 1955)

SO: Sum No 884, 9 Apr 1956

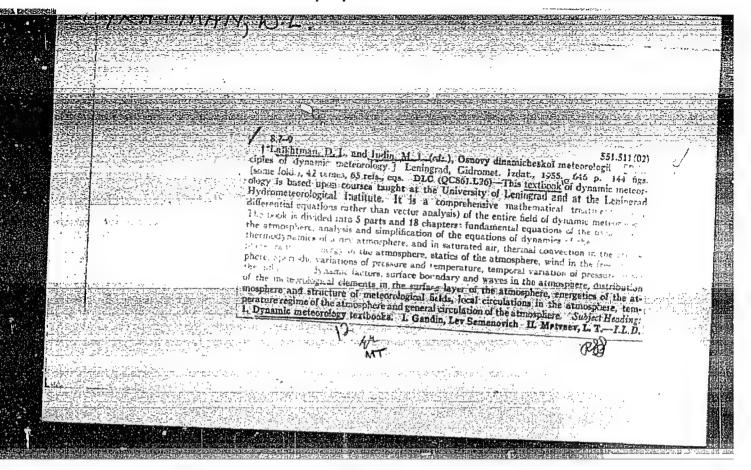
2/2

经环境制度的过程的通过特别的控制,不多的企业等,经济企业时间,可以在现代的企业,全级企业和通过转型的发现的经济进程的基础<mark>是是是现在是</mark>更多的最高,在各种的企业工程。

COMEYA, Tat'yana Aleksandrovna, kandidat geograficheskikh nank; LAYKHTMAR D.L., doktor fisiko-matematicheskikh nank, redaktor; VIASOVI,
Yu.V., redaktor; SOLOVEYCHIK,A.A., tekhnicheskiy redaktor

[Some characteristics of heat balance of an active surface
(according to observations made at Koltush)] Nekotorye osobennosti teplovogo balansa deiatel'nol powerkhnosti (po materialam
nabliudenii v Koltpushakh. Leningrad, Gidrometeorologicheskoe
izd-vo, 1955. 119 p.

(Heat)



D.L. Larkhtman

USSR/Geophysics - Turbulence

FD-1791

Card 1/1

Pub 45-13/18

Author

: Glazova, Ye. F., and Laykhtman, D. L.

Title

: Elementary theory of the wet evaporator for the study of turbulence

Periodical: Izv. AN SSSR, Ser. geofiz. 278-281, May-Jun 1955

Abstract

: The development of a simple and dependable method for determining the coefficient of turbulence is still an important task of meteorology. The determination of this coefficient on the basis of measurements of the pulsations of meteorological elements requires very complex apparatus and considerable expenditure of time for operation. In the present work the authors propose a method for determining the coefficient of turbulence on the basis of measurements of evaporation from a wet evaporator, proposed in 1951 by Ye. F. Glazova ("Measurement of evaporability by an evaporator with constant moisture," Trudy GGO, No 43 (105), 1954).

Institution: Main Geophysical Observatory im. A. I. Voyeykov

Submitted: May 20, 1954

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USSR/Geophysics - Irrigation

FD-2896

Card 1/1

Pub. 45 - 7/11

Author

: Laykhtman, D. L.

MONTH OF THE SELECTION OF THE SE

Title

: Physical principles governing the norms for irrigation

Periodical

: Izv. AN SSSR, Ser. geofiz., Nov-Dec 1955, 541-546

Abstract

The author poses the problem of determining the optimum norms of irrigation which must be kept in mind during the planning of water and land improvement enterprises. He states the problem mathematically and solves it, and gives certain results of the computations with the derived formulas. He thanks Z. M. Utina for the computational work. One reference: D. L. Laykhtman, "Transformation of an air mass under the influence of the underlying surface," Meteor-

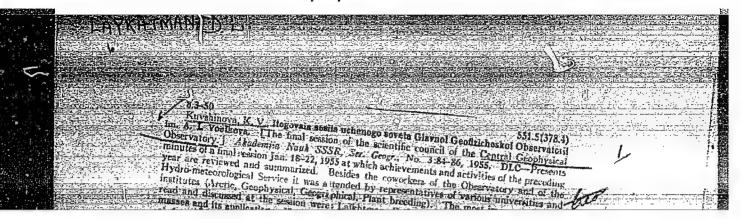
ologiya i gidrologiya, No 1, 1947.

Institution

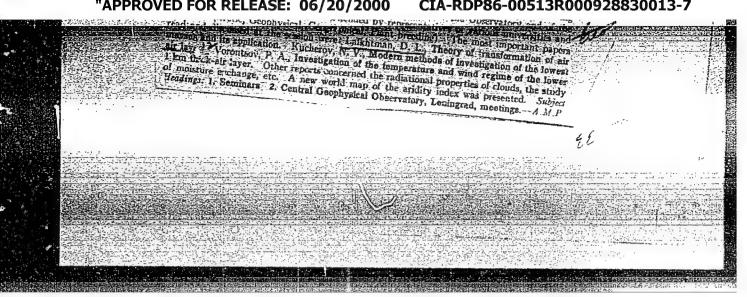
: Main Geophysical Observatory im. A. I. Voyeykov

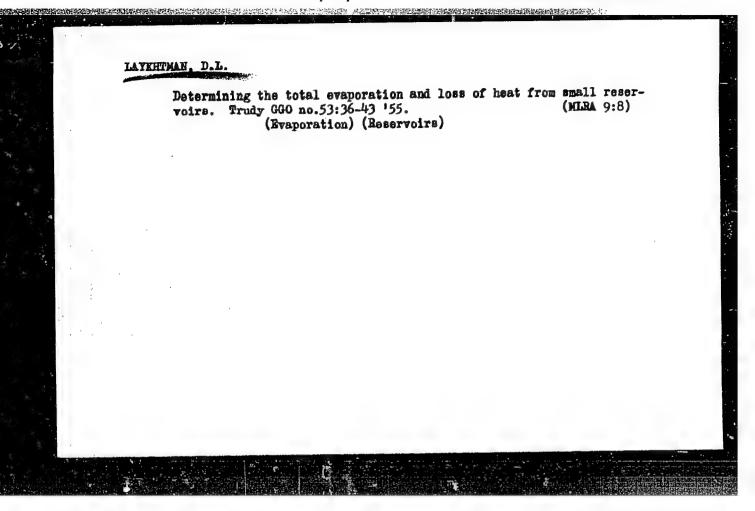
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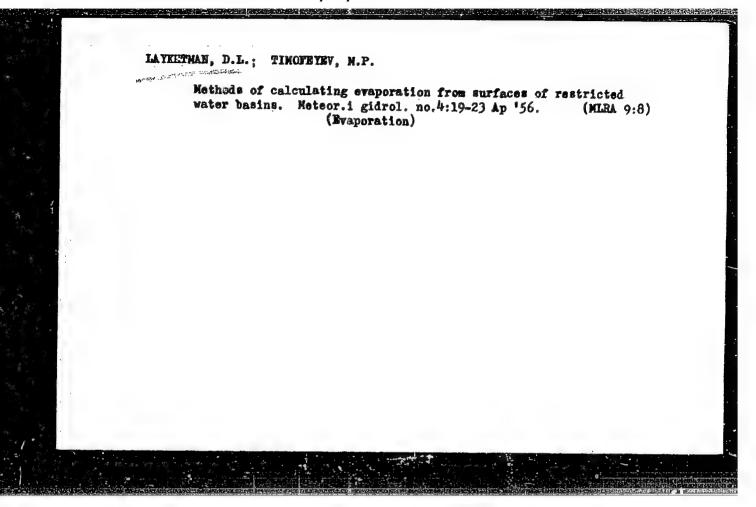
: June 18, 1954



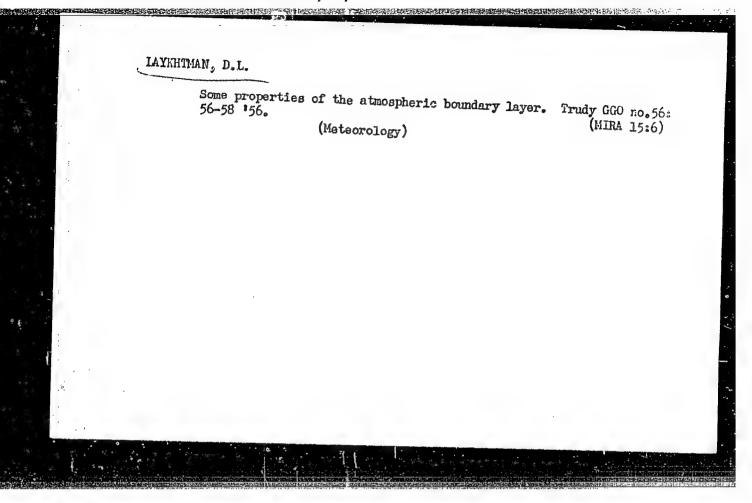
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SOV/36-56-60-3/10

AUTHOR:

Laykhtman, D. L. and Klyuchnikova, L. S.

TITLE:

Effect of Advection on the Intensity of Show Thawing ('livaritye'

advektsii na intensivnost' tayaniya snega)

PERIODICAL:

Trudy Glavnoy geofizicheskoy observatorii, 1956, Nr 60, pp 32-39 (USSR)

12.4 25个人的名词复数 在工程的企业的自己的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业。

ABSTRACT:

Inflow of heat from radiation, vertical turbulent transfer, and the deeper layers of soil affect the rate of snow thawing. The present discussion is restricted to the effect of turbulent transfer. A mathematical interpretation with formulas and a solution of the problem are given. There are 2 figures, 2 tables, and 1 Soviet

reference.

sov/30-56-60-5/10

AUTHOR:

Laykhtman, D. L. and Orlenko, G. P.

TITLE:

Intensity of Turbulent Exchange Over Water (Ob intensivnosti

turbulentnogo obmena nad vodnov poverkhnost vu)

PERIODICAL:

Trudy Glavnoy geofizicheskoy observatorii, 1956, Nr 60, pp 51-52 (USSR)

ABSTRACT:

An important indicator of turbulence over water surface is the vertical coefficient of turbulence which is a factor in all formulas for computing thermal streams, hamidity, etc. This coefficient was calculated from parameters characterizing the distribution of diffusive substances. The parameters were secured in 54 experiments. The ar-

ticle contains 1 diagram. There are no references.

Card 1/1

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928830013-7

AYKHTMAN, D.L.

AUTHORS:

156 Gandin, L. S., Laykhtman, D. L., Sopots'ko, Te.A., Shleneva, M. V.

TITLE:

Problems in Dynamic Meteorology (Zadachnik po dinamicheskoy

meteorologii)

PUB. DATA:

Gidrometeorologicheskoye izdatel'stvo, Leningrad, 1957,

182 pp., 3000 copies.

ORIG. AGENCY: None given

EDITORS:

Laykhtman, D. L., Professor; Vlasova, Yu. V.; Tech. Ed.:

Braynina, M. I.

PURPOSE:

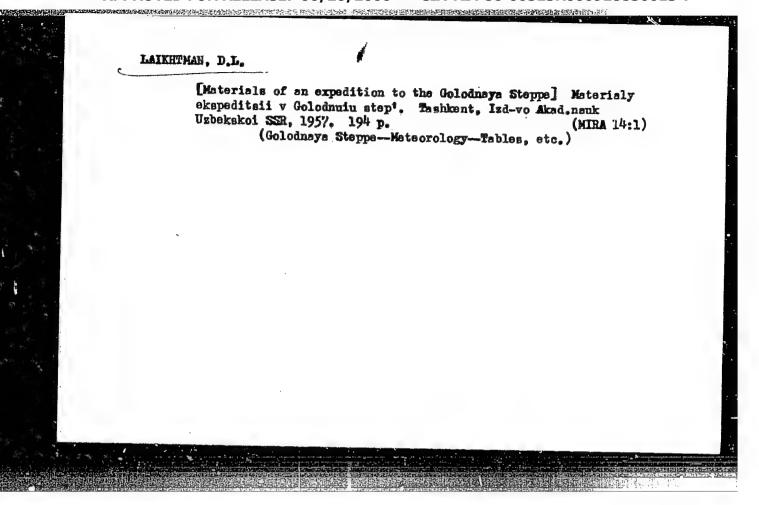
The book serves as a textbook for meteorological departments of

hydrometeorological institutes.

COVERAGE:

The problems and their solution comprise the practical exercises for a course in dynamic meteorology. The problems are grouped in specific units as can be seen from the table of contents. Explanatory notes are attached to every chapter and some basic

data necessary for solving the problems are inserted at the end. Author mentioned: Ludin, M. I. There are no references.



LAYKHTMHN, D. L.

AUTHOR: Laykhtman, D. L.

49-10-9/10

TITLE:

Conference of the Chief Geophysics Observatory relating to meteorology of the near-ground layer of the atmosphere. (Konferentsiya Glavnoy Geofizicheskoy Observatorii po Meteorologii prizemnogo sloya vozdukha).

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, 1957, No.10, pp.1273-1274 (USSR)

ABSTRACT: This conference was held between May 7 and 10, 1956 at the Chief Geophysics Observatory (Glavnoy Geofizicheskiy Observatorii). The conference was attended by numerous representatives of research institutes. The opening address was presented by the Director of the Chief Geophysics Observatory, M. I. Budyko and fourteen papers were read relating to differing problems. Most of the papers related to results of recent investigations of the near-ground layer of the atmosphere. The paper "Meteorological processes in the near-ground layer of the atmosphere in the Antarctic" by N. P. Rusin contained results of investigations of the near-ground layer carried out by the Soviet Antarctic Expedition in 1956; of great scientific interest are the data on the thermal balance of the active surface of the Antarctic and on the wind regime of the lower layer of the atmosphere. Due to

49-10-9/10

Conference of the Chief Geophysics Observatory relating to meteorology of the near-ground layer of the atmosphere.

> features of the relief of the Antarctic in the region where the expedition operated, they succeeded in obtaining important data on the structure of winds above slopes. The paper of D. L. Layktman was devoted to results of investigation of the near-ground layer of the atmosphere of the Central Arctic. The uniformity of the physical properties of the underlying surface and absence of daily variations of the short-wave radiation bring about important features in the meteorological conditions of the lower layers of the Arctic. The author gave quantitative data on the characteristics composing the thermal balance of the active surface and their variations during the year, he gave an evaluation of the influence of the ocean waters on the meteorological regime of the Arctic and also results of theoretical conclusions of the meteorological characteristics of the boundary layer of the atmosphere of the Arctic. The paper of P.A. Vorontsov contained much material on observations of the temperature and the wind regimes of the boundary layer of the atmosphere in various geographical regions of the U.S.S.R.

Card 2/6 The presented material is the result of micro-aerological

Conference of the Chief Geophysics Observatory relating to meteorology of the near-ground layer of the atmosphere.

measurements which were carried out by various expeditions under the leadership of the author. Of considerable interest are the results of analysis of experimental data and the important characteristics of the boundary layer of the atmosphere determined from these data, such as, its height, coefficient of turbulence, etc. B.A.Ayzenshtat and M. V. Zuyev described the results of investigation of the micro-climate and of the thermal balance of the desert and of the Pamir. In their measurements they used apparatus of original design. Particularly interesting are the data on the influence of the vegetation on the components of the thermal balance. The authors reported on the results of new investigations of local winds revealed in the region where the expedition worked. I. A. Gol'tsberg gave the results of investigations of the meteorological conditions of the near-ground layer of the atmosphere in regions of cultivation of virgin lands. The authors studied the conditions of formation of intensive inversions during the night above the "fine" relief and established the presence of slope winds under such conditions and he gave relevant quantitative data.

Card 3/6

49-10-9/10 Conference of the Chief Geophysics Observatory relating to meteorology of the near-ground layer of the atmosphere.

A. P. Gal'tsov devoted his paper to the technique of investigation of near-ground climate forming processes based on observations at one point. The author described a very interesting and original method of investigation and also the results of much statistical work. The paper of Corresponding Member of the Ac.Sc. A. M. Obukhov on the relations governing the micro-structure of the temperature and the wind in the near-ground layer of the atmosphere excited great interest. He described the technique, the results of observations and the analysis of the microstructure of the fields of temperature and wind. In the structural functions given by the author, the respective coefficients are determined on the basis of experimental data. Certain data were obtained on the mechanism of pulsations of meteorological elements. V.N. Kucherov and M.S. Sterizat devoted their paper to the technique of investigation of the boundary layer of the atmosphere. The features of distribution of meteorological elements and the intensive turbulence in the lower layers of the atmosphere impose certain requirements on the apparatus for studying Cerd 4/6 this layer. The authors gave a review of the existing

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49-10-9/10 Conference of the Chief Geophysics Observatory relating to meteorology of the near-ground layer of the atmosphere.

technique and they analysed in detail new apparatus developed in recent years. The paper of A.G. Samoylenko was devoted to determining the components of the thermal A considerable part of balance above water reservoirs. the presented papers related to applied problems. The paper of M. I. Budyko was devoted to calculation techniques, to the geographical distribution of the temperature of the active surface and its bioclimatic meaning. F.F. Davitaya dealt with the very important practical problem of taking into consideration micro-climatic features in distributing the plantation of individual crops; the original considerations of the author were illustrated by a number of concrete examples. M. Ye. Berlyand devoted his paper to the technique of local forecasting; he gave an analysis of the problem and also the solution for a number of concrete cases and some results relating to the methods used. M. P. Timofeyev dealt with the methods of calculation of the evaporation from small water reservoirs based on modern meteorological conceptions relating to the lower layers of the atmosphere; the author reviewed work in this Card 5/6 field and also his own original investigations.

49-10-9/10 Conference of the Chief Geophysics Observatory relating to meteorology of the near-ground layer of the atmosphere.

V. Ya. Nikandrov considered the physical relations governing the formation and the dispersion of clouds; he reported a number of new and important results. The conference showed that a new branch of meteorology, the meteorology of the lower layers of the atmosphere is being developed successfully in the Soviet Union. During a relatively short period interesting scientific and practical results were obtained in this field. The discussion has shown the great prospects involved in the practical utilisation of these results in various branches of the national economy.

N.B. (This is a complete translation).

AVAILABLE: Library of Congress

Card 6/6

36-57-69-9/16

AUTHOR:

Laykhiman, D. L. and Rusin , N. P.

TITE:

Meteorological Conditions for a Dry Wind (O meteorologicheskom

kriterii sukhoveya)

PERIODICAL:

Trudy Glavnoy geofizicheskoy observatorii, 1957,

Nr 69 pp 65-70 (USSR)

ABSTRACT: According to the author, a dry wind is defined as a "sukhovey" when it withers vegetation despite otherwise adequate humidity of the soil. The intensity of dryness depends on the interplay of four meteorological factors: air humidity, wind velocity, air temperature, and moisture balance (of vegetation), humidity, wind velocity, air temperature, and moisture balance (of vegetation). The author also claims that thus far it has not been possible to determine the role played by each individual factor in producing the dryness of a "sukhovey". The present article is an attempt to find a solution to this problem. The author analyzes each of the four factors and tries to establish an index of author analyzes each of the four factors and tries to vegetation. The author aridity based on the amount of moisture available to vegetation. The author assumes that the optimum relative humidity of soil in the arid zones of the soviet Union is 70 percent. He also recalls the fact that with increasing air dryness the supply of moisture and transpiration increase accordingly, though only ness the supply of moisture and transpiration increase accordingly, though only to a certain degree. When this critical point is exceeded and aridity continues

Card 1/2

36-57-69-9/16

Meteorological Conditions for a Dry (Cont.)

to mount the balance between moisture supply and respiration becomes distorted and withering sets in. A table cites the usual meteorological conditions which accompany a "sukhovey", such as loss of moisture by vegetation and changes in temperature, and shows their relationship to the velocity of wind and relative humidity, which are all recorded for particular hours and dates. Measurements were taken at an altitude of 2 meters, the velocity of wind was determined at the altitude of 8 meters. Table 2 traces the amount of evaporation; Table 5, the degree of excessive dryness. These observations were carried out in the Sal'sk steppe in Rostovssive dryness. These observations were carried out in the Sal'sk steppe in Rostovssive dryness. It was found that when loss in transpiration was above 3 mm. in 24 hours, plants began to wither. The author also describes occurrences of danger-ous "sukhovey". There are no references.

AVAILABLE: Library of Congress

Card 2/2

36-57-69-11/16

AUTHOR:

Laykhtman, D. L. and Klyuchnikova, L. A.

TIME:

The Role of "Polynya" in the Heat Balance of the Arctic (Rol: razvodiy

v teplovom balanse Arktiki)

PERIODICAL: Trudy Glavnoy geofizicheskoy observatorii, 1957, Nr 69, pp 77-79 (USSR)

'Although polynyas form only 5 percent of the total Arctic ice cover, they play an important role in its heat balance. The authors analyze the problem ABSTRACT: by comparing the components of heat balance for ice-covered and open water surpces. The analysis is mathematical and the conclusion is that 50 percent of the heat emitted in the Arctic comes from the open polynya areas. There are 1 Soviet reference, 2 tables, and 1 figure.

AVATLABLE:

Library of Congress

Card 1/1

"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928830013-7

LAYKHTMAN, D. L.

"The theory of the wind drift of ice"

report presented at a Scientific Conference on Dynamic and Thermal Interaction of the Atmosphere and Hydrosphere, 26-29 Mar. 1958, Leningrad (Vest Ak nauk SSSR, 7, '58, p. 128-29)

S/124/60/000/007/005/008 A005/A001

Translation from: Referativnyy zhurnal, Mekhanika, 1960, No. 7, p. 96, # 9007

AUTHOR: Laykhtman, D. L.

TITLE: The Mechanisms of the Physical Processes of the Atmospheric

Boundary Layer in the Arctic Regions

PERIODICAL: V sb.: Sovrem. probl. meteorol. prisemn. sloya vozdukha. Leningrad, Gidrometeoizdat, 1958, pp. 26-42

TEXT: The peculiarities of processes in the atmospheric boundary layer in the arctic regions were studied from the results of observations at CN-5 (SP-5) in winter 1955 and CN-6 (SP-6) in summer 1956. The specificity of these processes is determined by the minuteness of the diurnal fluctuations of the solar radiation, the homogeneity of the ground surface, and the constancy of the temperature of the latter (equal to the freezing point of salt water). The average values of the components of the heat balance above the snow and the lead in summer and in winter are presented. These values are 5 - 10 times smaller than in the temperate latitudes, which indicates that the system is close to the

Card 1/3

S/124/60/000/007/005/008 A005/A001

The Mechanisms of the Physical Processes of the Atmospheric Boundary Layer in the Arctic Regions

thermal equilibrium. It is stated that the leads play an essential part in the state of the boundary layer, because, as an example; the open water emits in winter 20 times more heat than the ice surface. The analysis of the radiation balance shows that the catabatic and anabatic longwave radiation streams in summer are similar to the radiation of the absolute black body: the existence of cloudiness essentially affects the radiation balance. Characteristical profiles of the temperature in the air, in the layers of snow and ice and in water in summer and winter are presented. A strong discontinuity is typical in winter at the interface of snow and ice, which is explanable by the difference in heat conductivities (the ratio of the heat-conductivity coefficients amounts to 0.14). The anabatic heat current from ice is essential: in winter it amounts on the average to 27 cal/cm2 during 24 hours. It is possible to judge on this heat current and also on the ice accretion rate from the snow surface temperature, The wind profiles are usually well approximated by the logarithmic law. An approximate theory of the steady conditions in the boundary layer is expounded. on the basis of which the yearly course of the temperature and the components

Card 2/3

S/124/6:/000/007/005/008 A005/A001

The Mechanisms of the Physical Processes of the Atmospheric Boundary Layer in the Arctic Regions

of the heat balance, the turbulence coefficient averaged over the altitude, and the thickness of the boundary layer were calculated. The results of calculation and the data from measurements agree satisfactorily.

A. S. Monin

Translator's note: This is the full translation of the original Russian abstract.

Card 3/3

507/50-58-6-22/24 None Given AUTHOR:

Transactions of the Scientific Research Institutes of the TITLE: "Hydrometeorologic" Service in 1957 (Trudy nauchno-issledovatel'skikh uchrezhdeniy Gidrometeosluzhby za 1957 g.)

Continuation (Prodolzhenive)

Meteorologiya i gidrologiya, 1958, Nr 6, pp. 61 - 63 (USSR) PERIODICAL:

ABSTRACT: Transactions of the Geophysical Main Observatory imeni A. I. Yoyeykov (Trudy Glavnoy geofizicheskoy observatorii im. A. I. Voyeykova) Periodical Nr 67. Research problems of clouds of mighty convection and of the zones of thunderstorm activity. Editor: V. V. Bazilevich, 153 pages, 11 articles.

Periodical Nr 68. Problems of actinometry and atmospheric optics. Editor: K. S. Shifrin and V. L. Gayevskiy, 208 pages,

18 articles.

Periodical Nr 69. Problems of the physics of the ground-near layer of the atmosphere. Editor: D. L. Laykhtman, 107 pages, 16 articles.

Periodical Nr 70. Problems of general climatology. Editor:

O. A. Drozdov, 135 pages, 6 articles, Card 1/3

507/50-58-6-22/24

Transactions of the Scientific Research Institutes of the "Hydrometeorologic" Service in 1957. Continuation

Periodical Nr 71. Problems of the numerical forecast and of climate theory. Editor: M. I. Yudin, 236 pages, 16 articles. Periodical Nr 72. Problems of atmospheric physics. Editor:

A. P. Chuvayev, 151 pages, 13 articles. Periodical Nr 73. Atmospheric physics. Editor: V. V. Bazile-vich, 132 pages, 11 articles.

11 articles.

Periodical Nr 75. Glazed frost and hoar-frost. Editor: O. A. Drozdov, 91 pages, 4 articles.

Transactions of the State Hydrological Institute (Trudy Gosudarstvennogo gidrologicheskogo instituta) Periodical Nr 59. Experimental intestigation of the elements of the water balance in Valday. Editors: A. R. Konstantinov and V. V. Kupriyanov, 224 pages, 6 articles. Periodical Nr 60. Problems of the hydrology of swamps. Editor: K. Ye. Ivanov, 108 pages, 6 articles. Periodical Nr 61. Problems of the flow formation and the methods for its calculation. Editor: D. L. Sokolovskiy, 306 pages,

Card 2/3

Transactions of the Scientific Research Institutes of the "Hydrometeorologic" Service in 1957. Continuation

Periodical Nr 62. Problems of hydrometry. Editor: A. K.

Proskuryakov, 108 pages, 6 articles.
(Periodical Nr 63 is not mentioned).

Periodical Nr 64 Problems of the construction of hydrological apparatus. Editor: K. D. Zav'yalov, 58 pages, 6 articles.
(Periodical Nr 65 is not mentioned).

Periodical Nr 66. Research problems of lakes and reservoirs.

Editor: A. P. Dozanitskiy, 140 pages, 5 articles.

1. Scientific reports—USSR 2. Meteorology 3. Hydrology

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LAYKht MAN, D.L.

PHASE I BOOK EXPLOITATION SOV/2440

Vsesoyuznyy gidrologicheskiy s"yezd, 3rd, Leningrad, 1957.

Trudy...t. III: Sektsiya gidrofiziki (Transactions of the 3rd All-Union Hydrological Convention. v. 3: Hydrophysics Section) Leningrad, Gidrometeoizdat, 1959. 470 p. Errata slip inserted. 2,000 copies printed.

Sponsoring agency: Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Minstrov SSSR.

Resp. Ed.: V.A. Uryvayev; Ed.: V.S. Protopopov; Tech. Ed.: M.I. Braynina.

PURPOSE: This work is intended for meteorologists, hydrologists, and hydrophysicists, particularly those engaged in the study of snow and ice and evaporation processes.

COVERAGE: This book contains papers on hydrophysics which were presented and discussed at the Third All-Union Hydrological Conference in Leningrad, October 1957. The Conference published 10 volumes

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SOV/2440 Transactions of the 3rd All-Union (Cont.) on various aspects of hydrology of which this is number 3. The editorial board in charge of the series include: V.A. Uryvayev (Chairman), O.A. Alekin, Ye.V. Bliznyak (deceased), O.N. Borsuk, M.A. Velikanov, L.K. Davydov, A.P. Domanitskiy, G.P. Kalinin, S.N. Kritskiy, B.I. Kudelin, L.F. Manoim, M.F. Menkel', B.P. Orlov, I. V. Popov, A.K. Proskuryakov, D.L. Sokolovskiy, O.A. Spengler, A.I. Chebotarev, and S.K. Cherkavskiy. This volume is divided into 2 sections: the first contains reports from the subsection for the study of evaporation processes, and the second contains reports from the snow and ice subsection. References accompany each article. TABLE OF CONTENTS: 3 Foreword 5 List of Abbreviations for Institutions PART I. SUBSECTION OF EVAPORATION STUDY 9 Reports Card 2/

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	Timofeyev, M.P. [Candidate of Physical and Mathermatical Sciences, GG[Leningrad] Application of the Heat Balance Method to Determine the Evaporation From the Surface of Water Bodies 16
	Krasovskiy, A.A. [Director of the Group, Lengidep Leningrad] Application of GOV and GGO Methods to Determine Evaporation From the Water Surface of Reservoirs and the Transpiration of Hydrophytes 26
	Laykhtman, D.L. [Professor, Doctor of Physical and Mathematical Sciences, GGO Leningrad] The Diurnal and Yearly Rate of Evaporation From Small Bodies of Water 35
	Krillova, T.V. [Candidate of Physical and Mathematical Sciences, GGO Leningrad] Radiation Balance of Water Bodies 42
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PHASE I BOOK EXPLOITATION

SOV/4641

Leningrad. Glavnaya geofizicheskaya observatoriya

Voprosy fiziki prizemnogo slova vozdukha (Problems in the Physics of the Near-Surface Air Layer) Leningrad, Gidrometeoizdat, 1960. 161 p. (Series: Its: Trudy, vyp. 94) Errata slip inserted. 850 copies printed.

Sponsoring Agencies: Glavnaya geofizicheskaya observatoriya imeni A.I. Voyeykova; Glavnoye upravleniye gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR.

Ed. (Title page): D.L. Laykhtman, Doctor of Physics and Mathematics; Ed. (Inside book): Yu.V. Vlasova; Tech. Ed.: N.V. Volkov.

PURPOSE: This publication is intended for meteorologists specializing in the lower layers of the atmosphere. It may also be of interest to agronomists, construction engineers, and other specialists whose activities are influenced by atmospheric conditions.

COVERAGE: This issue of the Transactions of the Main Geophysical Observatory contains 18 articles dealing mainly with problems of the physics of the near-surface air layer. Correlations between the surface wind and geostrophic wind are examined and the results of both theoretical calculations and Card 1/4